



x-17294.txt

SEQUENCE LISTING

<110> Karras, James G

<120> Antisense Oligonucleotide Modulation of STAT3 Expression

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<170> PatentIn Ver. 2.1

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&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence



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&lt;211&gt; 20

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&lt;213&gt; Artificial Sequence

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&lt;223&gt; Description of Artificial Sequence: Synthetic

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&lt;400&gt; 153

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ccctcggctc ggagaggccc ttccggcctga gggagcctcg ccgccgtcc ccggcacacg 180
cgcagccccg gcctctcggc ctctgccgga gaaacagttg ggaccctga ttttagcagg 240
atg gcc caa tgg aat cag cta cag cag ctt gac aca cgg tac ctg gag 288
Met Ala Gln Trp Asn Gln Leu Gln Gln Leu Asp Thr Arg Tyr Leu Glu
1 5 10 15

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## X-17294.txt

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Lys	Glu	Ser	His	Ala	Thr	Leu	Val	Phe	His	Asn	Leu	Leu	Gly	Glu	Ile	
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cac	aat	cta	cga	aga	atc	aag	cag	ttt	ctt	cag	agc	agg	tat	ctt	gag	528
His	Asn	Leu	Arg	Arg	Ile	Lys	Gln	Phe	Leu	Gln	Ser	Arg	Tyr	Leu	Glu	
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Lys	Pro	Met	Glu	Ile	Ala	Arg	Ile	Val	Ala	Arg	Cys	Leu	Trp	Glu	Glu	
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Ser	Arg	Leu	Leu	Gln	Thr	Ala	Ala	Thr	Ala	Ala	Gln	Gln	Gly	Gly	Gln	
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Ala	Asn	His	Pro	Thr	Ala	Ala	Val	Val	Thr	Glu	Lys	Gln	Gln	Met	Leu	
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Lys	Met	Lys	Val	Val	Glu	Asn	Leu	Gln	Asp	Asp	Phe	Asp	Phe	Asn	Tyr	
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aaa	acc	ctc	aag	agt	caa	gga	gac	atg	caa	gat	ctg	aat	gga	aac	aac	816
Lys	Thr	Leu	Lys	Ser	Gln	Gly	Asp	Met	Gln	Asp	Leu	Asn	Gly	Asn	Asn	
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Gln	Ser	Val	Thr	Arg	Gln	Lys	Met	Gln	Gln	Leu	Glu	Gln	Met	Leu	Thr	
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Leu	Ser	Ala	Met	Glu	Tyr	Val	Gln	Lys	Thr	Leu	Thr	Asp	Glu	Glu	Leu	
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Ala	Asp	Trp	Lys	Arg	Arg	Gln	Gln	Ile	Ala	Cys	Ile	Gly	Gly	Pro	Pro	
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aac	atc	tgc	cta	gat	cgg	cta	gaa	aac	tgg	ata	acg	tca	tta	gca	gaa	1056
Asn	Ile	Cys	Leu	Asp	Arg	Leu	Glu	Asn	Trp	Ile	Thr	Ser	Leu	Ala	Glu	
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Ser	Gln	Leu	Gln	Thr	Arg	Gln	Gln	Ile	Lys	Lys	Leu	Glu	Glu	Leu	Gln	
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## X-17294.txt

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ttt Phe	gtg Val	gtg Val	gag Glu	cgg Arg 325	cag Gln	ccc Pro	tgc Cys	atg Met	ccc Pro 330	atg Met	cat His	cct Pro	gac Asp	cgg Arg 335	ccc Pro	1248
ctc Leu	gtc Val	atc Ile	aag Lys 340	acc Thr	ggc Gly	gtc Val	cag Gln	ttc Phe 345	act Thr	act Thr	aaa Lys	gtc Val	agg Arg 350	ttg Leu	ctg Leu	1296
gtc Val	aaa Lys	ttc Phe 355	cct Pro	gag Glu	ttg Leu	aat Asn	tat Tyr 360	cag Gln	ctt Leu	aaa Lys	att Ile	aaa Lys 365	gtg Val	tgc Cys	att Ile	1344
gac Asp	aaa Lys 370	gac Asp	tct Ser	ggg Gly	gac Asp	gtt Val 375	gca Ala	gct Ala	ctc Leu	aga Arg	gga Gly 380	tcc Ser	cgg Arg	aaa Lys	ttt Phe	1392
aac Asn 385	att Ile	ctg Leu	ggc Gly	aca Thr	aac Asn 390	aca Thr	aaa Lys	gtg Val	atg Met	aac Asn 395	atg Met	gaa Glu	gaa Glu	tcc Ser	aac Asn 400	1440
aac Asn	ggc Gly	agc Ser	ctc Leu	tct Ser 405	gca Ala	gaa Glu	ttc Phe	aaa Lys	cac His 410	ttg Leu	acc Thr	ctg Leu	agg Arg	gag Glu 415	cag Gln	1488
aga Arg	tgt Cys	ggg Gly	aat Asn 420	ggg Gly	ggc Gly	cga Arg	gcc Ala	aat Asn 425	tgt Cys	gat Asp	gct Ala	tcc Ser	ctg Leu 430	att Ile	gtg Val	1536
act Thr	gag Glu	gag Glu	ctg Leu	cac His	ctg Leu	atc Ile	acc Thr 440	ttt Phe	gag Glu	acc Thr	gag Glu	gtg Val 445	tat Tyr	cac His	caa Gln	1584
ggc Gly	ctc Leu 450	aag Lys	att Ile	gac Asp	cta Leu	gag Glu 455	acc Thr	cac His	tcc Ser	ttg Leu	cca Pro 460	gtt Val	gtg Val	gtg Val	atc Ile	1632
tcc Ser 465	aac Asn	atc Ile	tgt Cys	cag Gln	atg Met 470	cca Pro	aat Asn	gcc Ala	tgg Trp	gcg Ala 475	tcc Ser	atc Ile	ctg Leu	tgg Trp	tac Tyr 480	1680
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tcc Ser	tcc Ser	acc Thr 515	acc Thr	aag Lys	cga Arg	gga Gly	ctg Leu 520	agc Ser	atc Ile	gag Glu	cag Gln	ctg Leu 525	act Thr	aca Thr	ctg Leu	1824
gca Ala	gag Glu 530	aaa Lys	ctc Leu	ttg Leu	gga Gly	cct Pro 535	ggt Gly	gtg Val	aat Asn	tat Tyr	tca Ser 540	ggg Gly	tgt Cys	cag Gln	atc Ile	1872
aca Thr 545	tgg Trp	gct Ala	aaa Lys	ttt Phe	tgc Cys 550	aaa Lys	gaa Glu	aac Asn	atg Met	gct Ala 555	ggc Gly	aag Lys	ggc Gly	ttc Phe	tcc Ser 560	1920
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X-17294.txt

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Leu	Ala	Leu	Trp	Asn	Glu	Gly	Tyr	Ile	Met	Gly	Phe	Ile	Ser	Lys	Glu	
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aca	aag	cag	cag	ctg	aac	aac	atg	tca	ttt	gct	gaa	atc	atc	atg	ggc	2208
Thr	Lys	Gln	Gln	Leu	Asn	Asn	Met	Ser	Phe	Ala	Glu	Ile	Ile	Met	Gly	
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tat	aag	atc	atg	gat	gct	acc	aat	atc	ctg	gtg	tct	cca	ctg	gtc	tat	2256
Tyr	Lys	Ile	Met	Asp	Ala	Thr	Asn	Ile	Leu	Val	Ser	Pro	Leu	Val	Tyr	
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Thr	Ile	Asp	Leu	Pro	Met	Ser	Pro	Arg	Thr	Leu	Asp	Ser	Leu	Met	Gln	
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Phe	Gly	Asn	Asn	Gly	Glu	Gly	Ala	Glu	Pro	Ser	Ala	Gly	Gly	Gln	Phe	
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Glu	Ser	Leu	Thr	Phe	Asp	Met	Glu	Leu	Thr	Ser	Glu	Cys	Ala	Thr	Ser	
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ccc	atg	tga	ggagctgaga	acggaagctg	cagaaagata	cgactgaggc										2593
Pro	Met	*														
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X-17294.txt

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 aaaaaaaaaa aaaaaaaaaa aa 3455

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Ser	Gln	Glu	His	Pro	Glu	Ala	Asp	Pro	Gly	Ser	Ala	Ala	Pro	Tyr	Leu	
				695				700						705		
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Lys	Thr	Lys	Phe	Ile	Cys	Val	Thr	Pro	Phe	Ile	Asp	Ala	Val	Trp	Lys	
			710					715					720			
taa	cggtgaaggt	gctgagccct	cagcaggagg	gcagtttgag	tcgctcacgt											2391
*																

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